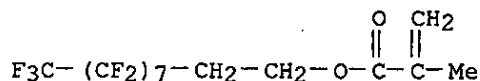


CM 6

CRN 1996-88-9

CMF C14 H9 F17 O2



L78 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 1992:409914 HCAPLUS
 DN 117:9914
 TI Fluoro(meth)acrylate esters and their coatings for heat-resistant optical fibers
 IN Yokoshima, Minoru
 PA Nippon Kayaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C07C069-653
 ICS C03C025-02; C08F020-22; C09D004-02; G02B006-44
 CC 42-7 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 35, 73

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03215453	A2	19910920	JP 1990-8154	19900119
	JP 2801719	B2	19980921		
PRAI	JP 1990-8154		19900119		
OS	MARPAT 117:9914				
AB	The title (meth)acrylates are QO(CH ₂) ₂ (CF ₂) ₄ (CH ₂) ₂ OQ [I; Q = CH ₂ :CRCO ₂ CH ₂ CH(OH)CH ₂ O, R = H, Me]. Thus, 3:97 mixt. of Irgocure 184 and I [R = H; from acrylic acid, epichlorohydrin, and HO(CH ₂) ₂ (CF ₂) ₄ (CH ₂) ₂ OH] showed water absorption 0.5% and elongation at break 51% (23.degree.) initially and 50% after 1 mo at 150.degree., which was used to coat on optical fibers and cured with UV rays to give fibers without any transmission loss at 150.degree. for 1 mo.				
ST	heat resistant coating optical fiber; fluoro acrylic coating optical fiber; octafluorooctanediol epoxidized diacrylate polymer coating				
IT	Optical fibers (heat-resistant coatings for, epoxidized octafluorooctanediol di(meth)acrylate polymers as)				
IT	Fluoropolymers RL: TEM (Technical or engineered material use); USES (Uses) (epoxy, acrylates, coatings, heat-resistant, for optical fibers)				
IT	Acrylic polymers, preparation RL: PREP (Preparation) (fluorine-contg., epoxidized, heat-resistant coatings, for optical fibers)				
IT	Epoxy resins, compounds RL: TEM (Technical or engineered material use); USES (Uses) (fluorine-contg., acrylates, coatings, heat-resistant, for optical fibers)				

IT Coating materials
(heat-resistant, octafluorooctanediol diepichlorohydrin ether
di(meth)acrylate polymers, for optical fibers)

IT 139011-87-3 139011-90-8 139011-91-9
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, heat-resistant, for optical fibers)

IT 79-10-7, Acrylic acid, reactions 79-41-4, Methacrylic acid, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of, with epoxidized octafluorooctanediols)

IT 83192-87-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(etherification of, with epichlorohydrin)

IT 106-89-8, Epichlorohydrin, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(etherification of, with octafluorooctanediol)

IT 139011-88-4P 139011-89-5P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and polymn. of, for coatings for optical
fibers)

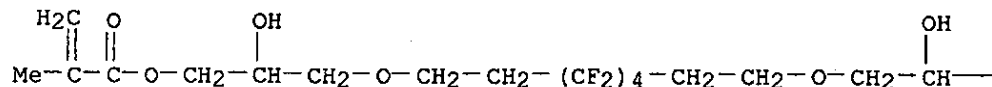
IT 139011-90-8 139011-91-9
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, heat-resistant, for optical fibers)

RN 139011-90-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, (3,3,4,4,5,5,6,6-octafluoro-1,8-
octanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)] ester, polymer with
(chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol]
2-propenoate and (3,3,4,4,5,5,6,6-octafluoro-1,8-octanediyl)bis[oxy(2-
hydroxy-3,1-propanediyl)] di-2-propenoate (9CI) (CA INDEX NAME)

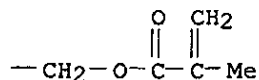
CM 1

CRN 139011-89-5
CMF C22 H30 F8 O8

PAGE 1-A



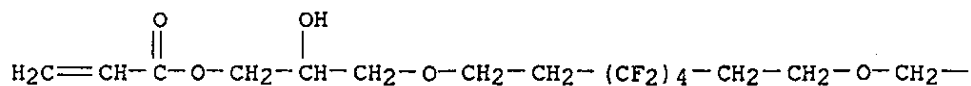
PAGE 1-B



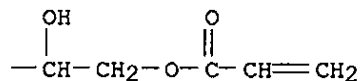
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CRN 139011-88-4
CMF C20 H26 F8 O8

PAGE 1-A



PAGE 1-B



CM 3

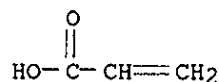
CRN 55818-57-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C3 H4 O2

CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 25068-38-6

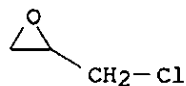
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CCI PMS

CM 6

CRN 106-89-8

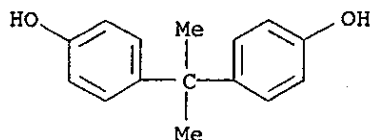
CMF C3 H5 Cl O



CM 7

CRN 80-05-7

CMF C15 H16 O2



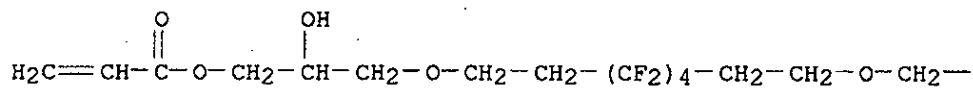
RN 139011-91-9 HCAPLUS
 CN 2-Propenoic acid, (3,3,4,4,5,5,6,6-octafluoro-1,8-octanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)] ester, polymer with (chloromethyl)oxirane
 polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-propenoate (9CI) (CA INDEX NAME)

CM 1

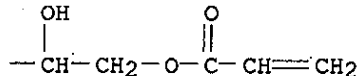
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CMF C20 H26 F8 O8

PAGE 1-A



PAGE 1-B



CM 2

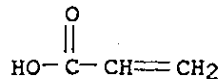
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CM 3

CRN 79-10-7

CMF C3 H4 O2



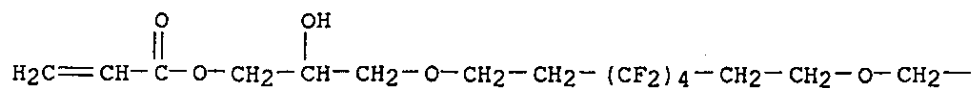
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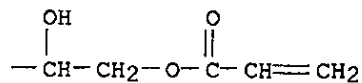
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CCI PMS

PAGE 1-A



PAGE 1-B



CM 3

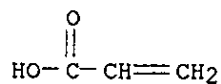
CRN 55818-57-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C3 H4 O2

CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 25068-38-6

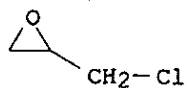
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CCI PMS

CM 6

CRN 106-89-8

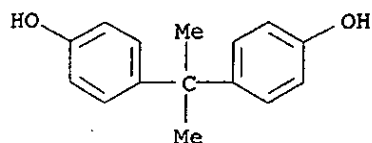
CMF C3 H5 Cl O



CM 7

CRN 80-05-7

CMF C15 H16 O2



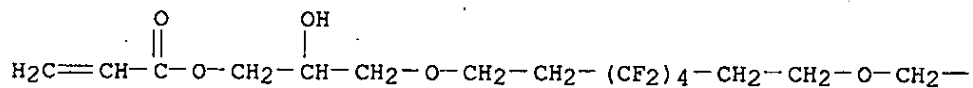
RN 139011-91-9 HCAPLUS
 CN 2-Propenoic acid, (3,3,4,4,5,5,6,6-octafluoro-1,8-octanediyl)bis[oxy(2-hydroxy-3,1-propanediyl)] ester, polymer with (chloromethyl)oxirane polymer with 4,4'-(1-methylethylidene)bis[phenol] 2-propenoate (9CI) (CA INDEX NAME)

CM 1

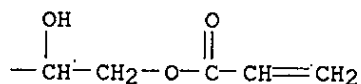
CRN 139011-88-4

CMF C20 H26 F8 O8

PAGE 1-A



PAGE 1-B



CM 2

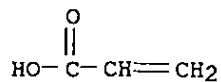
CRN 55818-57-0

CMF (C15 H16 O2 . C3 H5 Cl O)x . x C3 H4 O2

CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

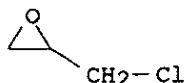
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CCI PMS

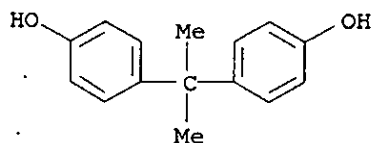
CM 5

CRN 106-89-8
CMF C3 H5 Cl O



CM 6

CRN 80-05-7
CMF C15 H16 O2



L78 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:215926 HCAPLUS
DN 116:215926
TI Broad-band high-numerical aperture plastic-clad optical fibers
IN Nishimoto, Hiroaki; Mishima, Takayuki
PA Sumitomo Electric Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM. G02B006-18
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 73
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03245108	A2	19911031	JP 1990-43402	19900223
	JP 3132729	B2	20010205		
	US 5123076	A	19920616	US 1991-658876	19910222
PRAI	JP 1990-43402	A	19900223		

AB The title optical fibers satisfy conditions of (1) n of the cured clad resin at practical wavelength is 97-98.5% that of edge of the core, (2) light transmission of the cured clad resin at a practical wavelength 500-4000 dB/km, and (3) linear expansion coeff. of the cured clad resin .ltoreq.2.0 .times. 10-4/.degree.C. Thus, an optical fiber comprising Ge-doped quartz core and fluorinated acrylate polymer clad had core n 1.474 (at center) and 1.455 (at edge), clad n 1.420, clad light transmission 2960 dB/km, clad linear expansion coeff. 0.00013/.degree.C, transmission band 89 MHz, and transmission loss 6.22 dB.

ST broad band optical fiber; high numerical aperture optical fiber; glass core optical fiber; fluorinated acrylate polymer optical